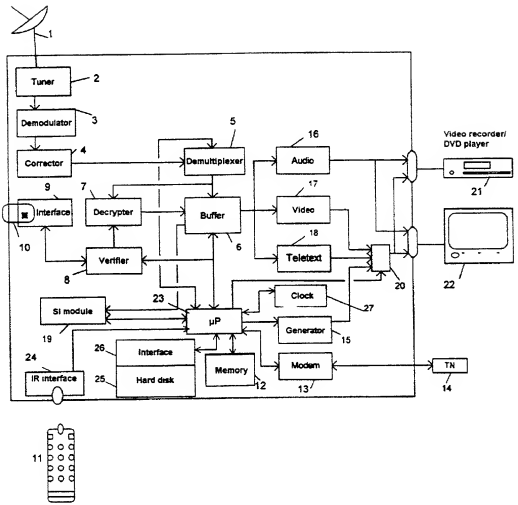

1
Tuner
2
Demodulator
3
Corrector
4
5
Demultiplexer
16
Audio
Video recorder/
DVD player
21
9
Interface
10
7
Decrypter
Buffer
17
Video
6
18
Teletext
Verifier
8
20
22
23
Clock
27
SI module
19
µP
Generator
15
24
IR interface
26
Interface
25
Hard disk
Memory
12
Modem
13
TN
14
11

Figure 1

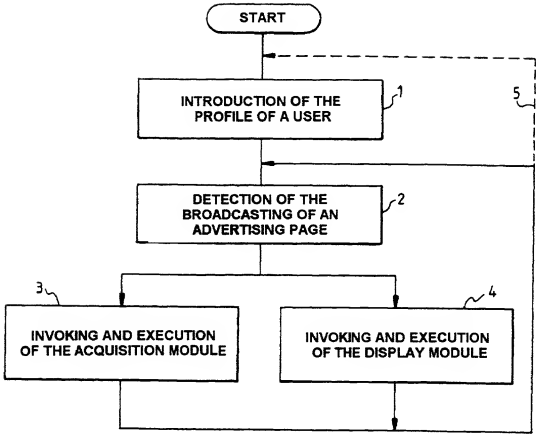

START
INTRODUCTION OF THE PROFILE OF A USER
1
5
DETECTION OF THE BROADCASTING OF AN ADVERTISING PAGE
2
3
INVOKING AND EXECUTION OF THE ACQUISITION MODULE
4
INVOKING AND EXECUTION OF THE DISPLAY MODULE

FIG. 2

Array of profiles

	Identifier – IDENT	Start and end address of the recordings area	Write pointer	Read pointer	List of preferences - PROFILE
I = 1	2	TAB_DEB2 / TAB_FIN2	PT_Wr2	PT_Rd2	[Sport, cars, offers of service, songs]
I = 2	1	TAB_DEB1 / TAB_FIN1	PT_Wr1	PT_Rd1	[Beauty, maintenance products, domestic electrical]
I = 3	3	TAB_DEB3 / TAB_FIN3	PT_Wr3	PT_Rd3	[Toys, songs]

Array of recordings corresponding to profile number 2

	Serial number of the recording	Address of the recording	Duration of the recording	Topic of the recording	
TAB_DEB 2 J = 1	1	REC2.1	1'30"	Sport	
J = 2	2	REC2.2	1'10"	Cars	
J = 3 - PT_Wr2→	3	REC2.3	0'31"	Songs	
J = 4	4	REC2.4	0'35"	Offers of service	←PT_Rd2
J = 5	5	REC2.5	0'33"	Sport	
TAB_FIN2					

Array of recordings corresponding to profile number 1

	Serial number of the recording	Address of the recording	Duration of the recording	Topic of the recording	
TAB_DEB 1 J = 1	1	REC2.1	1'30"	Beauty	
J = 2	2	REC2.2	0'45"	Maintenance products	
J = 3- PT_Wr1→	3	REC2.3	0'31"	Beauty	←PT_Rd1
TAB_FIN1					

Array of recordings corresponding to profile number 3

	Serial number of the recording	Address of the recording	Duration of the recording	Topic of the recording	
TAB_DEB 3 J = 1	1	REC2.1	1'30"	Songs	
J = 2 - PT_Wr3→	2	REC2.2	0'45"	Toys	←PT_Rd3
J = 3	3	REC2.3	0'31"	Toys	
TAB_FIN3					

Figure 3

FIG. 4

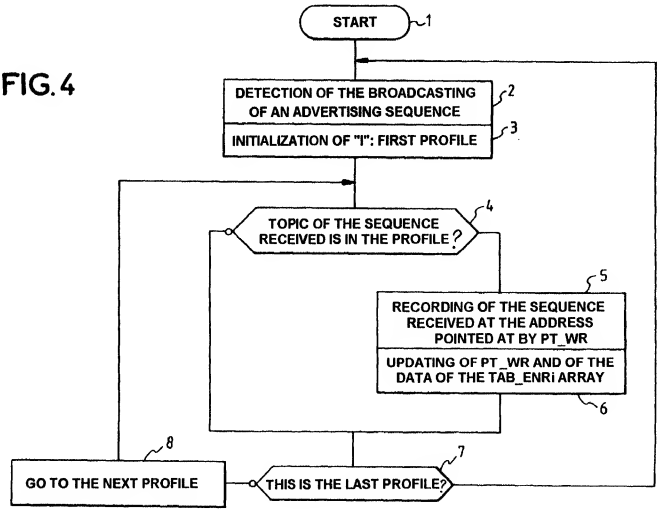
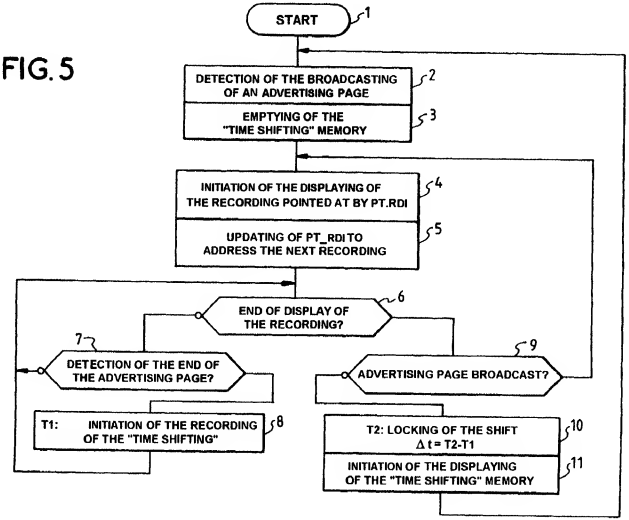

START
1
DETECTION OF THE BROADCASTING OF AN ADVERTISING SEQUENCE
2
INITIALIZATION OF "I": FIRST PROFILE
3
TOPIC OF THE SEQUENCE RECEIVED IS IN THE PROFILE ?
4
RECORDING OF THE SEQUENCE RECEIVED AT THE ADDRESS POINTED AT BY PT_WR
UPDATING OF PT_WR AND OF THE DATA OF THE TAB_ENRi ARRAY
5
6
THIS IS THE LAST PROFILE?
7
GO TO THE NEXT PROFILE
8

FIG. 5


START
1
DETECTION OF THE BROADCASTING OF AN ADVERTISING PAGE
2
EMPTYING OF THE "TIME SHIFTING" MEMORY
3
INITIATION OF THE DISPLAYING OF THE RECORDING POINTED AT BY PT.RDI
4
UPDATING OF PT_RDI TO ADDRESS THE NEXT RECORDING
5
END OF DISPLAY OF THE RECORDING?
6
DETECTION OF THE END OF THE ADVERTISING PAGE?
7
T1: INITIATION OF THE RECORDING OF THE "TIME SHIFTING"
8
ADVERTISING PAGE BROADCAST?
9
T2: LOCKING OF THE SHIFT Δt = T2-T1
10
INITIATION OF THE DISPLAYING OF THE "TIME SHIFTING" MEMORY
11

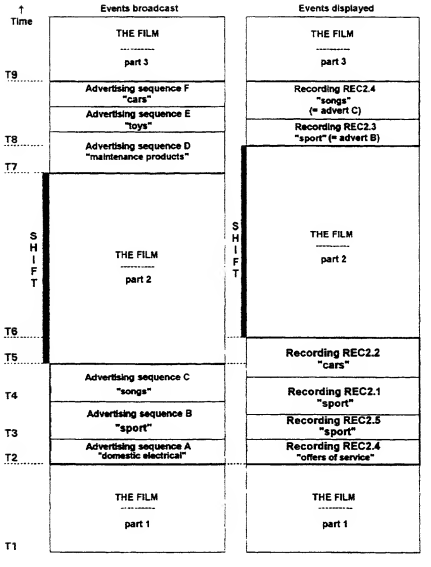

Time
Events broadcast
Events displayed
THE FILM
part 3
Advertising sequence F
"cars"
Advertising sequence E
"toys"
Advertising sequence D
"maintenance products"
THE FILM
part 2
Advertising sequence C
"songs"
Advertising sequence B
"sport"
Advertising sequence A
"domestic electrical"
THE FILM
part 1
SHIFT
Recording REC2.4
"songs"
(= advert C)
Recording REC2.3
"sport" (= advert B)
Recording REC2.2
"cars"
Recording REC2.1
"sport"
Recording REC2.5
"sport"
Recording REC2.4
"offers of service"
T1
T2
T3
T4
T5
T6
T7
T8
T9

Figure 6